## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE                                  |
|---------------------------|----------|--------|---------------------------------------|
|                           |          |        | · · · · · · · · · · · · · · · · · · · |
| FEE DETERMINATION         |          |        |                                       |
| O.I.P.E. CLASSIFIER       |          |        |                                       |
| FORMALITY REVIEW          |          |        |                                       |
| RESPONSE FORMALITY REVIEW |          |        |                                       |
|                           |          |        |                                       |

## INDEX OF CLAIMS

| V | Rejected                   | N           | ed |
|---|----------------------------|-------------|----|
|   | Allowed                    | 1Interferen | ce |
|   | (Through numeral) Canceled | A Appeal    |    |
| • | Restricted                 | O Objected  |    |

|   |            |       |                  |   |        |   |   | •        | ÷      |   | ••••      | ••••   | •••• | ••••      | ••••         | ••••     |           | n    | esu      | CIE       | u        |              |   |           | U            | •         |          | ••••         | ••••    |
|---|------------|-------|------------------|---|--------|---|---|----------|--------|---|-----------|--|------|-----------|--------------|----------|-----------|------|----------|-----------|----------|--------------|---|-----------|--------------|-----------|----------|--------------|---------|
| Γ | Cla        | im    |                  | _ | •      |   |   |          | at     |   |           |  |      | _         | -            | ٦        | С         | la   | im       |           |          | _            |   | Da        | te           |           | _        |              | _       |
|   | $\neg$     | linal | 9                | 3 |        | _ |   | Ī        |        |   |           |  |      | _         |              |          |           | BILL | Original |           |          |              |   |           |              |           |          |              |         |
| ŀ | -          | 7     |                  | 7 | ┪      |   | t | +        |        | _ | $\dagger$ | +  | 7    | _         | t            | 1        | 1         | 1    | 51       |           | 1        | 1            |   | _         | I            |           | I        |              |         |
| Ì | 7          |       | Г                | † |        | _ | 1 | 1        |        | Г | 1         | T  |      |           |              |          |           |      | 52       | $\Box$    |          |              |   |           |              | ↓         | _        |              | _       |
| İ |            | 2     | Г                | 1 |        |   | T | T        |        | Г | Т         | П  |      |           | T            |          |           |      | 53       | $\perp$   |          | $\perp$      |   |           | 1_           | 1         |          |              | _       |
| į | •          | 4     | Γ                | 1 |        |   | T | Ī        |        |   | Ι         |  |      |           | I            |          |           |      | 54       | 4         | 1        | 4            |   |           | ╀            | 4         | _        | _            | _       |
| 1 | /          | \$    |                  | Ţ |        |   | I |          |        |   |           |  | _    |           | L            |          | L         | _    | 55       | -         | 4        | 4            |   | <u> </u>  | ╀            | 4         | _        |              | ┡       |
|   | ,          | 6     |                  |   |        |   | 1 | _        |        | L | $\perp$   | _  |      | _         | Ļ            | 4        | L         | ┙    | 56       | 4         | 4        | 4            |   | _         | ╀            | ∔         | 4        |              | L       |
|   |            | 7     | L                | 1 |        |   | Ţ | _        |        | L | 1         | 4  |      |           | ļ            | 4        | $\vdash$  | _    | 57       | -         | -+       | $\dashv$     |   | L         | +-           | +         | 4        | _            | ┞       |
|   | _          | 8     | L                | _ |        | L | 4 | 4        | _      | L | +         | 4  |      | _         | 1            | 4        | $\vdash$  | _    | 58       | +         | +        | +            | _ | ⊢         | ╀            | +         | 4        | _            | ╌       |
|   |            | 19    | L                | 4 |        | L | 4 | 4        |        | L | 4         | 4  | _    | L         | ╀            | 4        | F         | _    | 59       | +         | $\dashv$ | -            | _ | -         | +            | +         | -        |              | ⊢       |
|   |            | 119   |                  | 4 |        | L | 4 | 4        |        | Ļ | +         | 4  |      | L         | ╀            | 4        | -         | -    | 60<br>61 | $\dashv$  | $\dashv$ | +            |   | ┝         | ╁            | +         | ᅥ        | _            | Н       |
|   | <u> </u>   |       | ₽                | 뇤 |        | ┞ | + | 4        |        | ╀ | +         | 4  |      | ┝         | ╀            | $\dashv$ | -         | -    | 62       | +         | $\dashv$ | +            | _ | ╁         | +            | +         | $\dashv$ |              | H       |
|   | ┡—         | 12    | H                | Н |        | H | + | +        | _      | ╀ | +         | +  | _    | ├         | +            | 4        | -         |      | 63       |           | -        | $\dashv$     | _ | t         | +            | +         | -        | _            | t       |
|   | Ļ          | 13    | -                | Н |        | ┝ | + | +        |        | ╀ | +         | ┥  | _    | ⊢         | ╁            | $\dashv$ | H         | -    | 64       | +         | 7        | +            |   | t         | +            | +         | _        | _            | +       |
|   | ⊢          | 15    | ┅                | Н |        | H | + | $\dashv$ |        | ╁ | +         | +  |      | ┞         | +            | $\dashv$ | \ <u></u> |      | 65       | +         | $\dashv$ | ٦            |   | 1-        | $^{\dagger}$ | 1         |          | Г            | T       |
|   | <u> </u> - | 16    | -                | 4 | -      | ╁ | + | +        |        | t | 7         | 7  | _    | r         | +            | ┪        | r         |      | 66       | _         | T        |              |   | Τ         | T            | 7         |          |              | T       |
|   | ┢          | 17    | $\boldsymbol{+}$ | Н | _      | t | + | $\dashv$ | _      | t | 7         | ٦  |      | T         | $^{\dagger}$ | _        | ı         |      | 67       | _         |          | $\neg$       |   | Г         | $\top$       | 1         |          | Γ            | Т       |
|   | $\vdash$   | 18    | -                | Н |        | t | + | d        | _      | t | +         |  |      | ╁         | Ť            | i        |           | Ī    | 68       |           | $\neg$   |              |   | T         |              | $\exists$ |          | Γ            | I       |
|   | $\vdash$   | 19    | -                | Н |        | H | + | $\dashv$ |        | t | ✝         |  |      | t         | †            | ٦        |           |      | 69       | 7         |          |              |   | Τ         | T            |           |          | Г            | Τ       |
|   | $\vdash$   | 20    | -                | Н |        | t | + | $\dashv$ |        | t | 7         | _  |      | t         | $\dagger$    | ┪        | r         | _    | 70       | ヿ         | $\neg$   |              | _ | T         | 1            |           |          | Г            | Ţ       |
|   | ┝          | 21    | -                | Н | -      | t | + | -        | _      | ╁ | $\dashv$  | -  |      | t         | +            | ┥        | ŀ         |      | 71       | $\neg$    | _        |              |   | †         | 十            | 7         | _        | T            | T       |
|   | H          | 22    | _                | ۲ | H      | t | Ħ |          | _      | † | 7         | _  |      | t         | 7            | ┪        | Ī         |      | 72       | T         |          |              |   | T         | T            | П         |          | Γ            |         |
|   | ┢          | 23    |                  | ۲ | -      | t | 7 |          | ┢      | t | ┪         | _  | Г    | T         | 1            |          | Ī         | _    | 73       |           | $\neg$   |              |   | I         | $\perp$      |           |          |              | Ι       |
|   | H          | 24    | -                | t | ┪      | t | ┪ |          |        | † | $\exists$ |  |      | Τ         | T            |          |           |      | 74       |           |          |              |   | L         | .1           |           |          | L            | ┸       |
|   | Г          | 25    | ;†               | t |        | t | 7 |          |        | Ť | 7         |  | Γ    | T         | 1            |          |           |      | 75       |           |          |              |   | L         |              |           |          | 1            | 1       |
|   | Г          | 26    |                  | † | T      | T | ٦ |          | Γ      | T |           |  |      | T         | $\Box$       |          |           |      | 76       |           |          |              | L | I         |              |           |          | L.           | $\perp$ |
|   | $\vdash$   | 27    | 7                | 1 | Г      | T |   |          |        | T |           |  |      | Ι         |              |          |           | _    | 77       |           |          |              | L | 1         | 4            |           | L.       | Ļ            | 1       |
|   |            | 28    | 3                | 1 |        | Ι |   |          |        |   |           |  |      | L         |              | _        |           |      | 78       |           |          |              | L | $\perp$   | -            | _         |          | L            | 4       |
|   |            | é     | V                | 7 |        | Ι |   |          |        | I |           |  | L    | 1         | _            |          | ļ         | _    | 79       | L         |          |              | L | 4         | 4            |           | L        | Ļ            | +       |
|   | $\Box$     | 13    | -                | Ξ | L      | 1 |   |          | L      | 1 | _         |  | L    | ↓         | 4            | _        | -         |      | 80       | -         |          | Ļ.           | ┞ | +         | 1            |           | _        | ╀            | +       |
|   | L          | 3     | -                | _ | L      | 1 |   |          | L      | 4 | _         | _  | Ļ    | 4         | 4            | _        | -         |      | 81       |           |          | <u> </u>     | ┝ | +         | -+           |           | L        | ╀            | +       |
|   | <u></u>    | 3     | -                |   | Ļ      | 1 |   | -        | ┡      | 4 | 4         |  | 1    | 4         | 4            | _        |           | _    | 82       |           | _        | ┝            | ⊢ | ╁         | $\dashv$     |           | ⊢        | ╁            | +       |
|   | 1          | 3     | -                |   | 1      | Ļ |   | _        | Ļ_     | 4 | 4         |  | L    | +         | $\dashv$     | _        |           |      | 84       | $\vdash$  |          | <u> </u>     | - | +         | +            |           | ┢        | ╁            | +       |
|   | $\vdash$   | . 3   | _                |   | ╄      | + |   | <u> </u> | ╀      | + | _         |  | ┝    | +         | -            |          | ŀ         | _    | 85       | 1         | ├-       | ⊢            | ╁ | ╁         | ┪            |           | ⊢        | ╁            | $^{+}$  |
|   | -          | 3     |                  | _ | ╄      | + |   | ┝        | ╀      | + | _         | -  | ╁    | ╁         | $\dashv$     |          | 1         |      | 86       | ├         | ┢╌       | $\vdash$     | ╆ | +         | ┪            |           | ┢        | ╈            | 十       |
|   | -          | . 3   | -                | _ | +      | + |   | $\vdash$ | ╁      | + | _         |  | +    | +         | $\dashv$     | _        |           |      | 87       | -         | $\vdash$ | -            | 1 | $\dagger$ | +            |           | $\vdash$ | +            | +       |
|   | -          | 3     |                  | _ | ╁      | + | _ | -        | +      | + |           | $\vdash$   | 十    | +         | -            |          |           |      | 88       | t         | $\vdash$ | $\vdash$     | t | +         | $\dashv$     |           | ⇈        | $^{\dagger}$ | +       |
|   | $\vdash$   | 3     | _                | _ | ╁      | + | - | $\vdash$ | ╁      | + |           | ┝  | ╁    | +         | -            |          |           | _    | 89       | t         |          | Т            | T | +         |              |           | Т        | T            | 1       |
|   | $\vdash$   | -     | 0                | - | ╁      | + | _ | -        | +      | + |           | H  | ╁╴   | +         | _            | _        | 1         | _    | 90       | T         | 1        | Ι_           | T | 1         |              |           | ✝        | Ť            | 7       |
|   | $\vdash$   | -     | 1                |   | ╁      | + |   | H        | ╁      | 1 |           | -  | ╁    | +         | _            | -        |           |      | 91       | $\dagger$ | <u> </u> | <del> </del> | t | +         | 7            |           | T        | †            | 1       |
|   | +          | _     | 2                |   | +      | + |   | $\vdash$ | ۲      | ┨ | _         | $\vdash$   | +    | +         | -            |          |           | _    | 92       | t         | $\vdash$ | $\vdash$     | t | $\dagger$ |              | _         | T        | $^{\dagger}$ | 7       |
|   | $\vdash$   |       | 3                |   | +      | + |   | ╁╌       | ╁      | 1 | -         | -  | +    | +         | _            | -        |           | Г    | 93       |           | Τ        | $\top$       | + | †         |              |           | T        | †            | 1       |
|   | -          |       | 4                |   | +      | + | _ | +-       | +      | ┪ |           | <del>                                     </del> | +    | +         | -            |          |           | Т    | 94       | +         | T        | T            | T | 7         |              |           | Τ        | 1            | 7       |
|   | $\vdash$   |       | 5                | _ | +      | + |   | $\vdash$ | $^{+}$ | + |           | -  | +    | $\dagger$ |              |          | 1         | Г    | 95       | -         | Τ        | T            | T | 7         |              |           | T        | T            | 1       |
|   | H          | _     | 6                | _ | $^{+}$ | + |   | †        | 1      | 7 |           | T  | T    | †         | _            | Г        | 1         | Γ    | 96       | -         | Τ        |              | Ι | J         |              |           | Ι        | Ι            |         |
|   | 1          | -     | 7                |   | T      | 7 |   | T        | T      | 7 | -         |  | T    | 1         |              | Г        | 1         | Γ    | 97       | T         |          | Γ            | Ι | Ţ         |              |           | Γ        | I            | J       |
|   | F          |       | 8                | - | †      | 7 | _ | t        | T      | 7 |           | Τ  | T    | 7         | _            |          | ]         |      | 98       | I         | L        |              |   |           |              |           | I        | Ι            | 1       |
|   | F          | 14    | 9                |   | T      | 7 |   | T        | T      |   |           |  | Ι    | I         | _            |          | ]         |      | 99       |           | $\Box$   |              | Γ | I         |              |           | L        | $\perp$      |         |
|   | $\vdash$   | 1-    | _                |   | 1"     | 7 |   |          | Т      | _ | _         | г  | Т    | -Т        |              | 1        | 1         | ı    | 10       | nI        | 1        | 1            | 1 | - 1       |              | ı         | 1        | 1            | - 1     |

| Cla      | im            |          | _         | _         |   | _        | Di | ate | •         | _        | _       |          |     |    | _ | ٦ |
|----------|---------------|----------|-----------|-----------|---|----------|----|-----|-----------|----------|---------|----------|-----|----|---|---|
| Cia      |               | Ţ        | 7         |           | Т | Т        | -  | T   | -         | Т        |         | _        | ٦   |    | Ţ | ┪ |
| 1        | Original      | İ        | 1         |           | ļ | ١        |    |     |           | 1        |         |          | - 1 |    | ١ | Į |
| Final    | į             | - 1      | ļ         |           | l |          |    | 1   |           | ١        |         |          | ١   |    |   | - |
| ᄪ        | $\overline{}$ | -        | _         | _         | ╀ | -        | _  | +   |           | +        | _       | H        | +   | _  | ╀ | 닉 |
|          | 101           | 4        |           |           | Ļ | _        | _  | 4   |           | +        | _       | L        | 4   |    | ╄ | 4 |
|          | 102           |          |           |           | 1 |          | _  | 4   | _         | 4        |         | L        | _   | _  | L | _ |
|          | 103           |          |           |           | L |          |    |     |           |          |         |          |     |    | L | ᆜ |
|          | 104           | T        |           |           | Ι |          |    |     |           |          |         | L        |     |    | 1 |   |
|          | 105           | П        |           |           | T |          |    | _   |           | ┙        |         |          |     |    | L |   |
|          | 106           | T        |           |           | Ī |          |    | ٦   |           | Ţ        |         |          |     |    | T |   |
|          | 107           | T        | _         | Г         | T |          |    |     |           | Т        |         | Γ        |     |    | Τ |   |
|          | 108           | ヿ        |           | Г         | T |          | Γ  |     |           | ٦        |         | Γ        |     |    | Т |   |
|          | 109           | Ħ        |           |           | T |          | Γ  |     | Г         | 1        |         | Γ        |     |    | T |   |
| _        | 110           | ヿ        | _         |           | T |          | Γ  |     | Г         | T        |         | Γ        |     | Г  | Т | _ |
| -        | 111           | 寸        |           | T         | † |          | T  | _   | Г         | 7        | _       | T        |     | П  | T |   |
| ┈        | 112           | 7        |           | 1         | † | _        | Г  |     | ļ         | 7        |         | Ť        |     | Г  | 1 |   |
| ┢        | 113           | -        | _         | ۲         | 7 |          | t  |     | H         | 1        | -       | ١        |     | Г  | † | _ |
| $\vdash$ | 114           | -        |           | ╁         | + |          | t  |     | H         | 7        | _       | t        |     | Н  | † |   |
| ⊢        | 115           | $\dashv$ |           | ╁         | + |          | ۲  | _   | ┝         | 7        |         | t        | -   | -  | + | _ |
| ├╌       | 116           |          |           | ╁         | + | _        | t  | _   | ┢         | $\dashv$ |         | t        | -   | ╁╌ | + | _ |
| -        | 117           | $\dashv$ | _         | ╁         | + |          | ╁  |     | ┝         | -        | _       | t        |     | ┝  | † | _ |
| -        |               | -        |           | ╁         | + |          | ╁  | _   | ╀         | -        |         | t        |     | ┞  | + | - |
| ⊢        | 118           | _        | _         | ╀         | + |          | ╀  |     | ╀         |          | _       | +        |     | ╁  | + |   |
| ┡        | 119           |          |           | Ļ         | 4 |          | ╀  |     | Ł         | _        | H       | +        | -   | ╀  | + | _ |
| L        | 120           |          |           | L         | 4 |          | 1  |     | L         |          |         | 1        |     | Ļ  | 4 |   |
|          | 121           |          |           | $\perp$   | _ | _        | 1  |     | L         | _        | L       | 1        |     | ┖  | 4 |   |
| Ĺ        | 122           |          |           |           |   | _        | ⊥  |     | L         |          | L       | 1        | _   | L  | 4 | _ |
|          | 123           |          |           |           |   | _        | ⊥  |     | l         |          |         | 1        |     | L  | _ |   |
| Г        | 124           |          |           |           |   |          | 1  |     | 1         |          | Ŀ       | 1        |     | L  | _ | _ |
| Г        | 125           |          |           |           |   |          |    |     | I         |          |         | 1        |     | L  |   |   |
| Г        | 126           |          | Γ         | Т         |   |          | T  |     | Τ         |          |         |          |     |    |   |   |
|          | 127           |          | Γ-        | T         |   |          | T  |     | T         |          |         | Т        |     | T  | Ī |   |
|          | 128           |          | Г         | 1         |   |          | 1  |     | T         |          | Γ       | 7        |     | Τ  |   |   |
| ٢        | 129           |          |           | T         |   |          | 1  |     | 1         |          | Г       | T        |     | T  |   |   |
| $\vdash$ | 130           | -        | 1-        | $\dagger$ |   | Н        | †  |     | †         | _        | Г       | 7        |     | 1  | ╛ |   |
| $\vdash$ | 131           | ┝        | ✝         | $^{+}$    |   | Т        | +  | _   | †         | -        | T       | 1        | _   | 1  | 7 | _ |
| $\vdash$ | 132           | $\vdash$ | H         | 十         |   | Н        | †  | _   | †         |          | +       | +        |     | †  |   |   |
| $\vdash$ | 133           |          | ╀         | +         |   | H        | +  | _   | †         | _        | t       | 7        |     | †  |   |   |
| $\vdash$ | 134           | _        | ╁╴        | $^{+}$    |   | -        | +  |     | +         |          | ۲.      | 1        | _   | †  |   | _ |
| +        | 135           |          | +         | +         |   | $\vdash$ | +  | -   | +         | _        | ۲       | +        |     | +  | - | H |
| $\vdash$ | 136           |          | ╁         | +         |   | -        | +  |     | +         | -        | +       | $\dashv$ | -   | +  | _ | 1 |
| +        | 137           | ┺-       | ╁         | +         |   | ⊢        | +  | _   | +         | -        | ╁       | ┥        |     | ╁  |   | H |
| -        | _             | -        | ╀         | +         |   | ┞        | ┥  |     | +         |          | ╀       | -        | H   | +  |   | ┝ |
| -        | 138           |          | ╀         | ╁         |   | ┝        | 4  | _   | +         | _        | ╁       | -        | H   | ÷  | - | H |
| $\vdash$ | 139           | -        | ╀         | +         | _ | ┞        | 4  |     | 4         | _        | +-      | -        | ┝   | +  |   | ┝ |
| L        | 140           |          | ╀         | 4         | _ | L        | 4  |     | 4         | _        | 4-      | 4        |     | +  |   | L |
| L        | 14            | -        | L         | $\perp$   |   | L        |    | _   |           | _        | 1       |          | L   | 4  |   | L |
| Ĺ        | 142           |          | L         |           |   | L        |    |     |           | _        | 1       |          | L   | 4  | _ | L |
| Γ        | 143           |          | Ι         | I         | _ |          |    |     |           | _        | $\perp$ |          | L   | _  | _ | L |
| Γ        | 144           | 1        | T         | T         |   | Γ        |    |     |           |          |         |          | L   |    |   |   |
| -        | 145           | 1        | T         | 7         |   | T        | Ī  | Γ   | $\exists$ |          | T       |          |     |    |   |   |
|          | 146           | <b>i</b> | T         | $\top$    |   | T        | _  | Г   | 7         | _        | T       |          | Γ   | T  | _ | Γ |
| -        | 147           | 1        | $\dagger$ | +         |   | t        | _  | Г   | 7         |          | T       | _        | T   | 7  | _ | Γ |
| $\vdash$ | 148           | +        | +         | +         | _ | †        | _  | H   | -         | _        | 十       |          | T   | 7  | _ | T |
| $\vdash$ | 149           | 1        | +         | +         | - | +        |    | H   | -         | _        | $^{+}$  | -        | t   | 7  |   | t |
| -        | 150           | 1        | +         | +         |   | +        | _  | H   | -         | -        | +       | _        | ۲   | +  | - | t |

If more than 150 claims or 10 actions staple additional sheet here

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